

PREPARATION OF DIALYSIS SOLUTION

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Inventor(s): DAIGO MINORU; others: 02
Applicant(s): NIKKISO CO LTD
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Abstract

PURPOSE: In the dialysis where a solution containing $\text{HCO}_3\text{-}$ ion is used, the water for dilution, which is previously adjusted in pH by blowing carbon dioxide gas therein, is mixed with the concentrated dialysis solution to prepare the dialysis solution so that the precipitation of carbonate salts is prevented in the dialysis solution.

CONSTITUTION: In the artificial kidney dialysis where a solution containing $\text{HCO}_3\text{-}$ ion is used, the water for dilution is supplied from water supply system 30 and previously adjusted in pH to 5.5-6.7 by blowing carbon dioxide from the system 20 therein, then sent through the system 40 and mixed with the concentrated dialysis solution, thus preparing the dialysis solution. The mixing is effected by the following procedures: 60pts. of the concentrated dialysis solution containing $\text{HCO}_3\text{-}$ ion is combined with 40pts. of the dilution water containing carbon dioxide and then 70pts. of the concentrated dialysis solution free from $\text{HCO}_3\text{-}$ ion is added to the mixture. Further, when the piping systems are previously filled with the dilution water adjusted in pH with carbon dioxide, the precipitation of carbonate salts can be avoided.

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